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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/617,219	07/17/2000	Sanjoy Sen	10923RRUS01P	8426	
27683 7:	590 11/19/2003		EXAMINER		
HAYNES AND BOONE, LLP			BLOUNT, STEVEN		
901 MAIN STI DALLAS, TX	REET, SUITE 3100 75202		ART UNIT PAPER NUMBER		
DALDERIO, TA	, , 2.02		2661	/	
			DATE MAILED: 11/19/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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7	Application No.		Applicant(s)	11
	09/617,219		SEN ET AL.	
Office Action Summary	Examiner		Art Unit	
	Steven Blount		2661	
The MAILING DATE of this communication apperiod for Reply	pears on the cover	sheet with the co	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION: - Extensions of time may be available under the provisions of 37 CFR 1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, howen oly within the statutory mir will apply and will expire e, cause the application to	ever, may a reply be time imum of thirty (30) days SIX (6) MONTHS from the become ABANDONED	ely filed will be considered timely. ne mailing date of this communicatio (35 U.S.C. § 133).	on.
1) Responsive to communication(s) filed on 10	July 2002 .			
	his action is non-fi	nal		
3) Since this application is in condition for allow closed in accordance with the practice under	ance except for fo	ormal matters, pro		is
Disposition of Claims		·		
4) Claim(s) 1-45 is/are pending in the application		-4:		
4a) Of the above claim(s) is/are withdra	iwn from consider	ation.		
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>1-45</u> is/are rejected.	•			
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction and/o	or election require	ment.	·	
9) The specification is objected to by the Examine	Or			
10) ☐ The drawing(s) filed on is/are: a) ☐ acce		ed to by the Evan	niner	
Applicant may not request that any objection to the				
11) The proposed drawing correction filed on	=		, ,	
If approved, corrected drawings are required in re			Tod by the Examiner.	
12) The oath or declaration is objected to by the Ex	• •			
Priority under 35 U.S.C. §§ 119 and 120				
13) Acknowledgment is made of a claim for foreig	ın priority under 35	SUSC 8 110/a\	-(d) or (f)	
a) ☐ All b) ☐ Some * c) ☐ None of:	in priority drider of		-(u) or (i).	
1. Certified copies of the priority documen	ta haya baan rasa	ivod		
			n No	
2. Certified copies of the priority documen				
 3. Copies of the certified copies of the prical control c	ureau (PCT Rule 1	17.2(a)).	J	
14) Acknowledgment is made of a claim for domest	tic priority under 3	5 U.S.C. § 119(e)) (to a provisional applicat	tion).
 a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domes 	• •			
Attachment(s)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	4)		(PTO-413) Paper No(s): atent Application (PTO-152)	
.S. Patent and Trademark Office PTOL-326 (Rev. 04-01) Office A	action Summary		Part of Paper No	 o. 6

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1 5 and 31 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. patent 5,862,485 to Linneweh Jr. et al.

With regard to claim 1, Linneweh Jr. et al teaches reserving first and second radio resources in both a wireless node and detected target node, and performing a handoff. See the abstract, col 8 lines 55+, col 4 lines 60+, and columns 2 and 6. Although Linneweh Jr. et al does not absolutely state that the resources be equal, the statement in the last paragraph of the abstract, that "The serving base site (101) then allocates (309) the reserved communication resource (127) to the communication unit (112) upon the communication units initiation of the priority call" (emphasis added) which nearly certainly implies that they are equal, and it would also be obvious to implement it in this fashion in any event.

With regard to claim 2, the operation is under control by a controller in the BSC 118 (see figures 1 and 2). With regard to claim 3, the examiner does not believe it would be beyond the ordinary skill in the art to realize the desirability of using the unused radio bandwidth resources for other purposes when not needed. With regard to claims 4 - 5, note that in column 4 lines 63+, handoff is performed when the class of service

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changes from one type to another (ie, one signal value to another). With regard to claims 31 – 32, see the above, and also note the mention of a software algorithm in col 6 line 47.

3. Claims 6 - 16, 24 - 29 and 33 - 38 are rejected under 35 U.S.C. 103(a) as being obvious over U.S. patent 6,438,370 to Einola et al.

With regard to claim 6, Einola teaches a method of performing handoff in a radio subsystem of a wireless network, comprising deciding which RNS to target (see, for example, col 8 lines 45+ and col 11 lines 19+), sending a relocation started message from the originating RNS to a core network, the core network coupling the RNS's (see, for example, col 8 line 48) and receiving the message at the target RNS (see col 8 line 48) and reserving radio resources at the target RNS (lu-links, see col 10 line 45, col 11 line 34, 48 and 63, col 10 lines 45+, col 12 lines 25+ ("binding identifiers for lu links to be established"), and col 12, lines 15+). Sending an acknowledgement message is taught in col 14, lines 23+. Although the target RNS does not reserve the resources as claimed on its own (it apparently does this with the help of the SNRC – see col 10, lines 43+), to have the RNS do it alone, instead of with the help of the SNRC, would be an obvious change well within the ordinary skill in the art.

With regard to claim 7, see the relocation request in col 11. With regard to claims 8 – 11, see col 10, lines 43+, where the "number of the lu-links" (ie, the radio resource) is mentioned, see col 12 lines 23+, where identifiers for the lu-links are mentioned, and note that IP addresses are commonly used as destination addresses for channel endpoints such as the RNC identity discussed in column 11, line 19. With regard to

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claims 12 - 14, see col 14, lines 23+, and note that sending IP addresses and tunnel creation, in this context, would be obvious to help facilitate forming the connection creation. With regard to claims 15 – 16, while tunneling is not explicitly mentioned, it is mentioned in column 13, lines 1+ that the SRNC starts downlink transmission to the BS's in col 13, lines 1+, wherein tunneling to produce connections such as these is well known in the art. With regard to claims 24 – 29 and 33 – 38, see the rejections above, noting that, with respect to claims 33 – 38, these processes are all implementable in software.

4. Claims 17, 30, and 39 are rejected under 35 U.S.C. 103(a) as being obvious over U.S. patent 6,438,370 to Einola et al in view of Applicants Admitted Prior Art (hereinafter AAPA).

With regard to these claims, Einola et al teaches the invention as described above, but does not teach buffering the downlink packets in the target RNC. Buffering packets in a similar manner is taught in the specification, page 2 lines 15+ and page 3, lines 3+ of AAPA. Therefore, it would have been obvious to buffer the packets of Einola et al in light of the teachings of AAA in order to increase system throughput.

5. Claims 1 and 31 are rejected under 35 U.S.C. 103(a) as being obvious over U.S. patent 5,530,912 to Agrawal et al.

With regard to claim 1, Agrawal teaches reserving a channel to be used during handover between a mobile and its associated (ie, coupled) base station, wherein the channel has the same bandwidth (ie, resource) at both of these members and along the path joining them, wherein in col 4, lines 43+, it is stated that the base station detects

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the mobile, then reserves a channel between them for that subscriber. Although in Agrawal it appears that channel reservation appears after detection, to reserve a first resource before the said detection is an obvious variation. Further, applicant has not listed that the steps be carried out in any particular order. With regard to claim 31, this process would be obvious to implement in software.

6. Claims 18 – 23, 40 – 45 are rejected under 35 U.S.C. 103(a) as being obvious over U.S. patent 6,438,370 to Einola et al in view of U.S. patent 6,553,015 to Sato.

Einola et al teaches the invention as described above, but does not teach detailing information regarding the last packet sent after handoff. Sato teaches a similar process detailing the next cell to be transmitted when handoff is completed. See the abstract and figure 2, wherein the combination of Einola et al/AAPA with Sato would allow for faster recovery of the data transmission process after handoff. It is noted that the discussion of the CN and the suspension process is discussed above. With regard to claim 44, see col 11, line 28 of Einola et al.

Seven Blount may be reached at 703 – 305 – 0319 Monday through Friday, 9:00 7. to 5:30.